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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/532,469	04/22/2005	Fabio Vignoli	NL 021053	1612	
	7590 08/01/200 ELLECTUAL PROPER	EXAM	EXAMINER		
P.O. BOX 3001			SAINT CYR, LEONARD		
BRIARCLIFF	MANOR, NY 10510		ART UNIT	PAPER NUMBER	
			2626		
			MAIL DATE	DELIVERY MODE	
			08/01/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/532,469	VIGNOLI, FABIO		
Examiner	Art Unit		
LEONARD SAINT CYR	2626		

		LEONARD SAINT CYR	2626					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time many be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed self-six (S) (MONTH'S from the mailing date of the communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (B) MONTHS from the mailing date of this communication. Failure to reply within the set overheade period for reply will by statute, cause the application to become ARADONDED (38 U.S.C, § 133). Any reply received by the Office laster than three months after the mailing date of this communication, even if timely filed, may reduce any earned patter term adjustment. See 37 CFR 1.740(b)								
Status								
1) Responsive to communicati	Responsive to communication(s) filed on 30 June 2008.							
2a) This action is FINAL.		action is non-final.						
3) Since this application is in c	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with t	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) 1-19 is/are pending	g in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-19</u> is/are rejected	d.							
7) Claim(s) is/are object	ted to.							
8) Claim(s) are subject	to restriction and/or	r election requirement.						
Application Papers								
9) The specification is objected	I to by the Examine	r.						
10) The drawing(s) filed on			Examiner.					
Applicant may not request that	any objection to the	drawing(s) be held in abeyance. See	9 37 CFR 1.85(a).					
Replacement drawing sheet(s)	including the correct	ion is required if the drawing(s) is obj	jected to. See 37 C	FR 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
 Certified copies of the priority documents have been received. 								
Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)								
Notice of References Cited (PTO-892)		4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)/Mail Da	ate					

3) Information Disclosure Statement(s) (FTO/SE/CE) Paper No(s)/Mail Date _____.

5) Notice of Informal Patent Application
6) Other: _____.

Office Action Summary

Page 2

Application/Control Number: 10/532,469

Art Unit: 2626

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 06/30/08 has been entered.

Response to Arguments

Applicant's arguments filed 01/17/08 have been fully considered but they are not persuasive.

Applicant argues that neither Kaufholz nor Schroder et al., teach discarding utterance if not preceded by recognition of a predetermined keyword (Amendment, pages 13 - 16).

The examiner disagrees, Schroder et al., teach "an operated-control command which, after its input by the first user, allows voice commands from a second user to be accepted may be advantageously provided. The input command for controlling the voice-controlled system is used in method step 8, for example for menu control or navigation" (col.2, lines 39 – 44, col.3, lines 49 – 52). Allowing voice commands from different users for menu control or navigation implies discarding utterance if not

Page 3

Application/Control Number: 10/532,469

Art Unit: 2626

preceded by recognition of a predetermined keyword, since only predetermined commands that can control the navigation system are recognized.

Claim Rejections - 35 USC § 103

- The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- Claims 1- 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schroder et al. (US Patent 7,136,817) in view of Kaufholz (US Patent 7,050,971).

Regarding claims 1 and 9, Schroder et al. discloses a speech control unit for controlling an apparatus on basis of speech, comprising:

a microphone array, comprising multiple microphones for receiving respective audio signals (see col. 4, lines 44-46); and

a speech recognition unit for creating an instruction for the apparatus based on recognized speech items of the speech signal (see col. 4, lines 60-62, where the commands are recognized speech items), and a keyword recognition system for recognition of a predetermined, keyword that is spoken by the user and which is represented by a particular audio signal and the speech control unit being arranged to control the beam forming module (see col. 4, lines 60-62, where the commands are the predetermined keywords spoken), on basis of the recognition of the predetermined keyword, in order to enhance second components of the audio signals which represent a subsequent utterance originating from a second orientation of the user relative to the microphone array (see col. 2, lines 38-44);

Art Unit: 2626

wherein the recognition of the predetermined keyword at the second orientation so that the subsequent utterance originating from the second orientation are accepted ("The input command for controlling the voice-controlled system is used in method step 8, for example for menu control or navigation"; col.2, lines 39-44, col.3, lines 49-52);

wherein the subsequent utterance originating from the second orientation will be discarded if not preceded by the recognition of the predetermined keyword originating from the second orientation ("The input command for controlling the voice-controlled system is used in method step 8, for example for menu control or navigation"; col.2, lines 39 – 44, col.3, lines 49 – 52; col.1, lines 44 - 47).

Schroder et al. do not disclose a beam forming module for extracting a speech signal of a user; calibrates the beam forming module to allow the user from the first orientation to the second orientation. However this feature is well known in the art as indicated by Kaufholz. Kaufholz discloses a speech recognition apparatus that utilizes a beam former that creates a higher performance and resolution of the resulting microphone signal. The beam former may also select or even tract an audio source. Typically, the loudest source signal is identified (see col. 5, lines 8-15). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was .made to utilize a beam forming module with the apparatus of Kaufholz for the benefit of a higher performance and resolution of the resulting microphone signal.

Regarding claim 2, Schroder et al. further disclose that the keyword recognition system is arranged to recognize the predetermined keyword that is spoken by another

Art Unit: 2626

user and the speech control unit being arranged to control the beam forming module, on basis of this recognition, in order to enhance third components of the audio signals which represent another utterance originating from a third orientation of the other user relative to the microphone array (see col. 2, lines 35-44).

Regarding claim 3, Schroder et al. further disclose that a first one of the microphones of the microphone array is arranged to provide the particular audio signal to the keyword recognition system (see col. 4, lines 56-62).

Regarding claim 4, Schroder et al. further disclose that the beam forming module is arranged to determine a first position of the user relative to the microphone array (see col. 4, lines 51-56).

Regarding claim 5, Schroder et al. further disclose that an apparatus comprising: a speech control unit for controlling the apparatus on basis of speech as claimed in claim 1 (see col. 4, lines 60-62); and

processing means for execution of the instruction being created by the speech control unit (see col. 4, lines 60-62).

Regarding claim 6, Schroder et al. discloses an apparatus as claimed in claim 5, characterized in being arranged to show that the predetermined keyword has been recognized (see fig. 1, col. 3, lines 32-45).

Art Unit: 2626

Regarding claim 7, Schroder et al. discloses an apparatus as claimed in claim 6, characterized in comprising audio generating means for generating an audio signal in order to show that the predetermined keyword has been recognized (see fig. 1, col. 3, lines 32-45).

Regarding claim 8, Schroder et al. discloses a consumer electronics system comprising the apparatus as claimed in claim 5 (see col. 4, lines 63-65).

As per claims 10, and 15, Kaufholz further discloses that the user is informed by indications that the speech control unit is not active, is in active state and ready to receive the utterance or is in a state of calibration ("the controller can also check which part is active at the moment of receiving input from the user"; col.7, lines 42 - 54).

As per claims 11-14, and 16-19, Schroder et al., in view Kaufholz do not specifically teach that indications include an animal in a sleeping state indicating inactive state or in an awake state indicating active state; wherein the progress of the active state is indicated by angle of ears of the animal; wherein the ears are fully raised at a beginning of the active state, and fully down at an end of the active state; wherein the animal has an understanding look when the utterance is recognized and a puzzled look when the utterance is not recognized.

Art Unit: 2626

However, the examiner takes official notice that an artisan at the time of invention would have known that using an animal to indicate active and inactive state would help keep the controller informed of its current state.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LEONARD SAINT CYR whose telephone number is (571)272-4247. The examiner can normally be reached on Mon- Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LS 07/30/08

Page 8

Art Unit: 2626

/Richemond Dorvil/ Supervisory Patent Examiner, Art Unit 2626